BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Emergncy Works and Maintenance of Ward in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

							Estimate Cost:		2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB M200-12.3: Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead and lead of 10000 meters complete as per specifications. - c. prestressed / reinforced cement concrete grade M-20 & above, **No. 147/ Item No. 18.19 / PWD SR 2013-14**	Cum							
	Ramachandrapura School Roof		1	10.00	7.50	0.15	11.25		
	Walls		2	10.00	0.23	3.00	13.80		
			3	7.06	0.23	3.00	14.61		
			1	10.00	6.00	0.15	9.00		
			2	10.00	0.23	3.00	13.80		
			5	6.00	0.23	3.00	20.70		
	Flooring Concrete		1	25.00	10.00	0.15	37.50		
			1	12.00	10.00	0.15	18.00		
							138.66		
	Deductions								
	Doors		2	0.90	0.45	2.10	-1.70		
			2	0.90	0.23	2.10	-0.87		
	Windows		4	0.90	0.45	0.75	-1.22		
			2	0.60	0.23	0.60	-0.17		
							-3.95		
							134.71	826.20	**111300.00**
	Basic Rate	765.00							
	Area Weightage @8%	61.20							
	Total	**826.20**							
2	KSRB 2-1.2: Earth work in surface excavation in **hard soil** for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, **No. 5 / Item No. 2.1 / PWD SR 2013-14**	Cum							
	CC Road		1	25.00	10.00	0.20	50.00		
			1	8.00	5.00	0.20	8.00		
							58.00	126.36	**7329.00**
	Basic Rate	117.00							
	Area Weightage @8%	9.36							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**126.36**							
3	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, **Page No. 5 / Item No. 2.4/ PWD SR 2013-14**	Cum							
	For Sump		1	3.50	2.50	1.50	13.13		
	Compound of Ramachandrapura School		1	10.00	0.75	0.75	5.63		
	Culverts		3	6.50	2.00	1.20	46.80		
							65.55	223.66	**14661.00**
	Basic Rate	211.00							
	Area Weightage @ 6%	12.66							
	Total	**223.66**							
	Above 1.5 Mtrs Depth Add 25% Extra		1	3.50	2.50	0.60	**5.25**	279.58	**1468.00**
	Basic Rate	263.75							
	Area Weightage @ 6%	15.83							
	Total	**279.58**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2013-14**	Cum							
	Bottom Sump Bottom		1	3.50	2.50	0.15	1.31		
	CC Road		1	25.00	10.00	0.15	37.50		
			1	8.00	5.00	0.15	6.00		
	Compound of Ramachandrapura School		1	10.00	0.75	0.15	1.13		
			3	6.50	2.00	0.15	5.85		
							51.79	4211.38	**218097.00**
	Basic Rate	3973.00							
	Area Weightage @ 6%	238.38							
	Total	**4211.38**							
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **PWD SR 2013-14 (P.25/I.5.6)**	Cum							
	Compound of Ramachandrapura School		1	10.00	0.75	0.45	3.38		
	Culvert		2x3	6.50	0.60	0.45	10.53		
							13.91	3484.22	**48448.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	3287.00							
	Area Weightage @ 6%	197.22							
	Total	**3484.22**							
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement** with **cement mortar 1:6**, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 **(P.26/I.5.9) PWD SR 2013-14**	Cum							
			1	10.00	0.45	0.45	2.03		
	Culvert		2x3	6.50	0.60	0.45	10.53		
							12.56	4148.84	**52089.00**
	Basic Rate	3914.00							
	Area Weightage @ 6%	234.84							
	Total	**4148.84**							
7	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 122 / Item No. 15.3 / PWD SR 2013-14**	Sqm							
			2	10.00		0.45	9.00		
			2x3	6.50		0.90	35.10		
							44.10	78.44	**3459.00**
	Basic Rate	74.00							
	Area Weightage @ 6%	4.44							
	Total	**78.44**							
8	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12 / Item No. 4.6/ PWD SR 2013-14**	Cum							
	Coping		1	10.00	0.45	0.10	0.45		
			3	6.50	1.80	0.10	3.51		
							3.96	4779.00	**18925.00**
	Basic Rate	4425.00							
	Area Weightage @ 8%	354.00							
	Total	**4779.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
9	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm and down size** graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3 lts confirming to IS 9103-1999 reaffirmed-2008 , machine mixed, concrete laid in layers not exceeding 15cms thic floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2013-14**	Cum							
	Bottom		1	3.50	2.50	0.20	1.75		
	Side Wall		2	3.50	0.23	2.10	3.38		
			2	2.20	0.23	2.10	2.13		
	Covering Slab		1	3.50	2.50	0.15	1.31		
	Culvert		3	6.50	1.80	0.23	8.07		
	Ramp		2x3	6.50	1.00	0.15	5.85		
							22.49		
	Deduction for Cap		1	0.60	0.60	0.30	0.11		
							22.38	5535.32	**123901.00**
	Basic Rate	5222.00							
	Area Weightage @ 6%	313.32							
	Total	**5535.32**							
10	KSRB 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46.2 / PWD SR 2013-14 TMT Bars Fe 500**	Qtl							
	For Sump 120 Kg/Cum		1.20	22.38			**26.86**	7312.94	**196429.00**
	Basic Rate	6899.00							
	Area Weightage @ 6%	413.94							
	Total	**7312.94**							
11	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	Sump Sides		4	3.50		2.50	35.00		
			4	2.50		2.50	25.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	3.50		2.50	8.75		
	Culvert		3	6.50	0.60		11.70		
			2x3	6.50		0.25	9.75		
			2x3	1.80		0.25	2.70		
							92.90	271.08	**25183.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
12	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 19 / Item No. 4.48.1/ PWD SR 2013-14**	Cum							
	CC in front of Dodbommasandra School		1	25.00	10.00	0.10	25.00		
			1	8.00	5.00	0.10	4.00		
							29.00	6464.88	**187482.00**
	Basic Rate	5986.00							
	Area Weightage @ 8%	478.88							
	Total	**6464.88**							
13	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **190 / Item No. 22.7/ PWD SR 2013-14**	Sqm							
	CC in front of Dodbommasandra School		1	25.00	10.00		250.00		
			1	8.00	5.00		40.00		
							290.00	91.80	**26622.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
14	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 27/ Item No. 5.27/ PWD SR 2013-14**	Sqm							
			1	10.00		2.50	25.00		
							25.00	924.48	**23112.00**
	Basic Rate	856.00							
	Area Weightage @ 8%	68.48							
	Total	**924.48**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
15	1031 - Hire Charges of J.C.B Excavator including Operator and Fuel (P. XXXXVII / I. 23) PWD SR 2013-14	Day							
			45				45		
							45	6720.00	**302400.00**
16	1023 - Hire Charges of Tractor 40 HP including Operator and Fuel (P. XXXXVII / I. 19) PWD SR 2013-14	Day							
			2x60				120		
							120	1296.00	**155520.00**
17	Engaging Causal Labours (Unskilled mazdoor Heavy) (PWD SR 2013-14 Page No. LV)	Nos							
			2X10X60				1200		
							1200	191.81	**230172.00**
18	KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	Desilting of Drains								
			2	130.00	0.45	0.30	35.10		
			1	50.00	0.45	0.25	5.63		
			2	110.00	0.45	0.30	29.70		
			2	40.00	0.45	0.35	12.60		
	Berm Cutting								
			2	130.00	1.00	0.25	65.00		
			1	50.00	1.00	0.25	12.50		
			2	110.00	1.00	0.25	55.00		
			2	40.00	1.00	0.25	20.00		
							235.53	90.72	**21367.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
19	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**235.53**	72.71	**17124.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
20	**Total**								**1785088.00**
21	KRIDL Service Charges and Applicable Taxes @ 11%								**196360.00**
22	For Third Party QC Charges @ 1%								**17851.00**
23	Miscellaneous and other Charges	L/S							**701.00**
								Total	**2000000.00**
(Rs. Twenty Lakhs Only)									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 This work included under 2013-14 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division